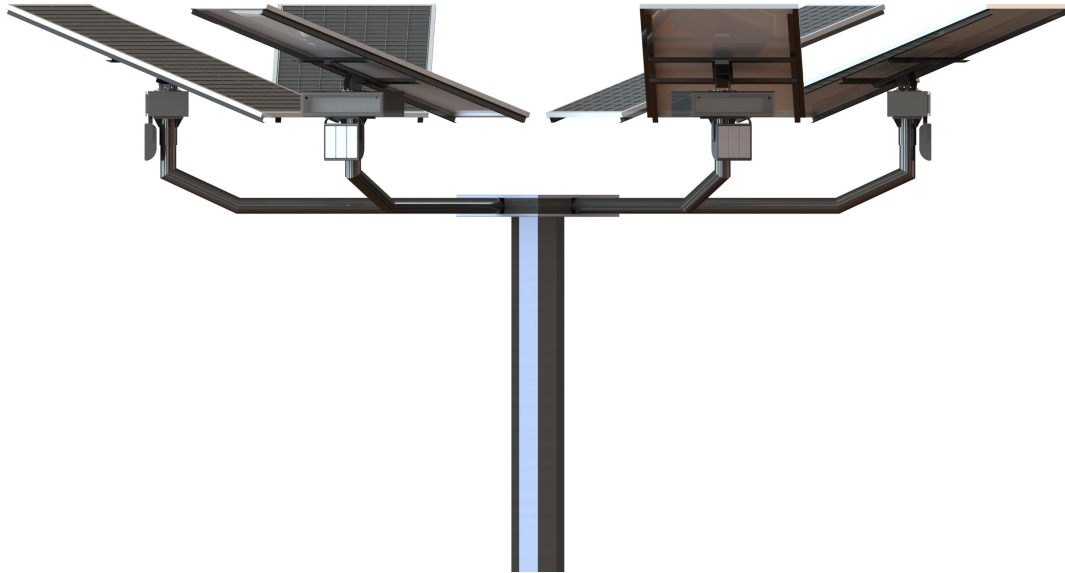


20M Solar LED High mast 6 x 80w High power LED floods

SFSOLHM6X80LI



Design supplied with
6 x 80w Highpower LED floods Floods
6 x 400w panels

The SOLM 20M Solar LED high mast design is a robust and durable Solar lighting solution for those areas which require high quality components in overall design and performance

This model is supplied with 6 x 80w Philips Lumi LED 5050 SMD LED flood with a lumen output of 180lm/w.

Lighting parameters are programmed for 14 hour runtime

Light distribution is supplied with 30X45 degree with Smart PC lenses, designed with smart beam optics and other lens configurations are available

The battery is designed to cater for 14 hours with 2 reserve factor nights with Smart mode Solar controller MPPT Technology

The batteries require 5 hours to replenish its reserves

Lithium LIFEP04 Batteries with between 2000 - 3000 life cycles with an average life span of to 8 - 10years

20m Mast with optional side mounted cat ladder from 10m upwards

SOLM 20M Solar LED High mast 6 x 80w High power LED floods

LIGHT	Power	6 x 80w
	LED	Philips 5050 SMD
	IP Rating	IP66
	Flux @ CCT 5000K	6 x 14400Lm
	CRI - Colur Rendering Index	70
	Optics	PC lens with smart beam
	Average Lifespan	80 - 100 000 hours
	Operating Temperature	- 30 > + 50 Degrees
	Mounting Height	20 meter above ground level
	Light Distribution	30*45 degree Smart optical
	Lumen per WATT	180 Lumen / watt
	Pole to pole distance	100 meters
BATTERY	Lithium	Life PO4
	Voltage	6 x 25.6v
	Watt Hours	6 x 1843,2 Wh - 72Ah
	Lifespan	Over 2000 Cycles
SOLAR PANEL	Power	6 x 400w
	Voltage	44.12V
	Maximum current	10.91 Amp
CONTROLLER	Charging method	6 x Smart Mppt 20A
	Dimming Parameters	Full load with Smart power
	Day night sensor	Intelligent integrated
	Lighting parameters	6Hrs 100% / 8 hrs 70%
	Electrical parameters	Temperature compensation Overheating overcharging and over discharging protections
BATTERY CRADLE AND ENCLOSURE	3CR12 steel cabinet and powder coated Manufactured in an SABS approved facility with ISO 9001	
POLE	Galvanized 20m mast - Sectional Poles	
WARRANTY	5 years on all components - option to extend	

SOLM 20M Solar LED High mast 6 x 80w High power LED floods

This design allows for each solar panel to be rotated 360 degrees on its mounting brackets to ensure all solar panels are facing in the North position for optimal sunshine

Each mast consists of 6 individual 6 x 80w Solar LED Flood Lights which are run individually

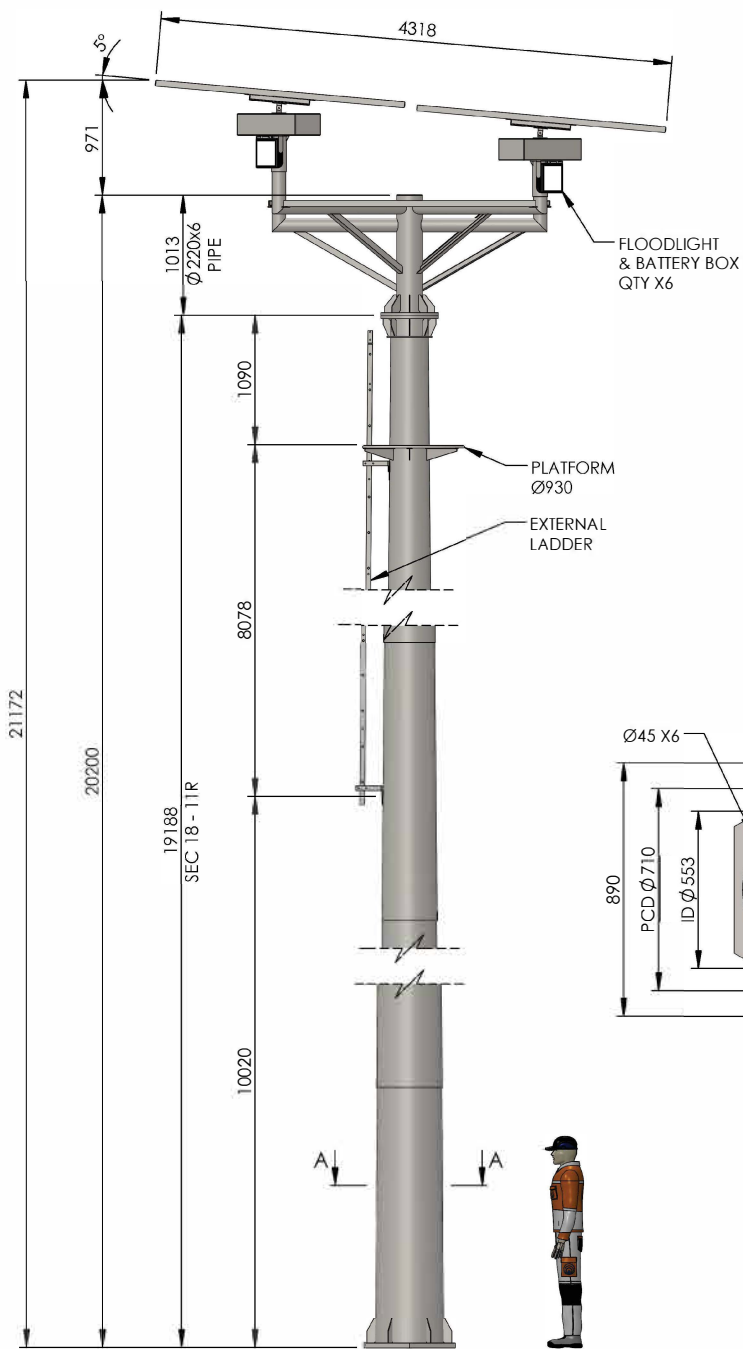
This is too ensure that should a problem arise for whatsoever reason on a single unit the remaining 5 units will remain operational until that single unit can be serviced or repaired

Solar panels will all be secured at a 5 degree inclination for the best wind loading factor on the mas

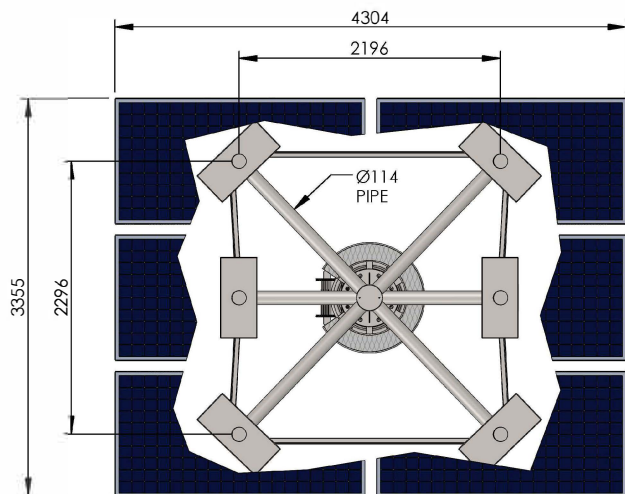
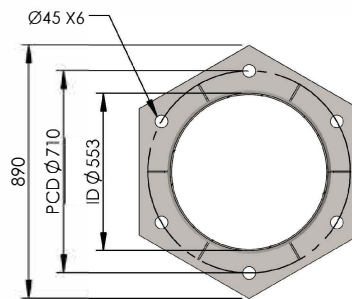
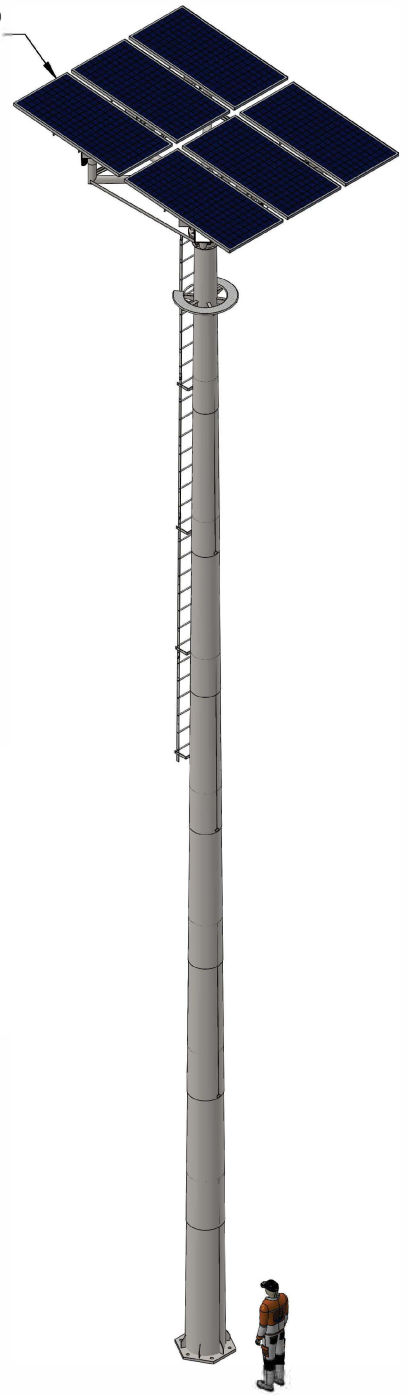


Image Illustration

INFORMATION ONLY



SOLAR PANNEL
2108X1048X40
QTY X6

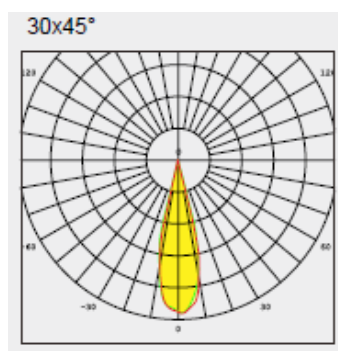
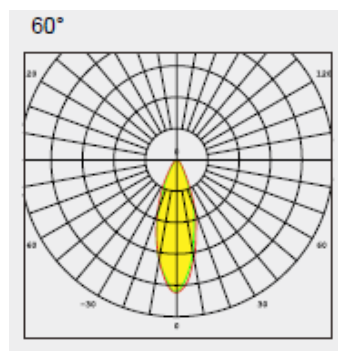
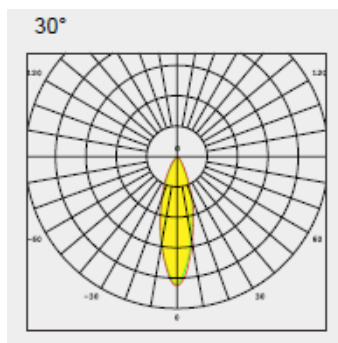


20m FLOODLIGHT MAST WITH 6X FIXED
FL & SOLAR PANNELS

SOLM 20M Solar LED High mast 6 x 80w High power LED floods

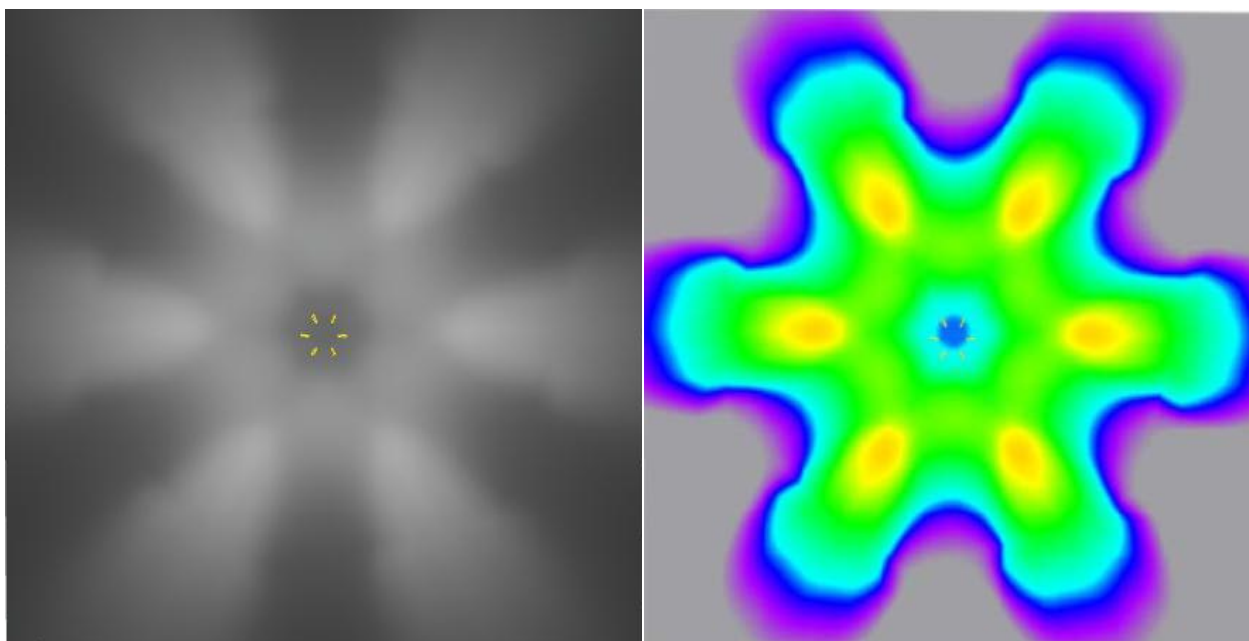


3 Lens options

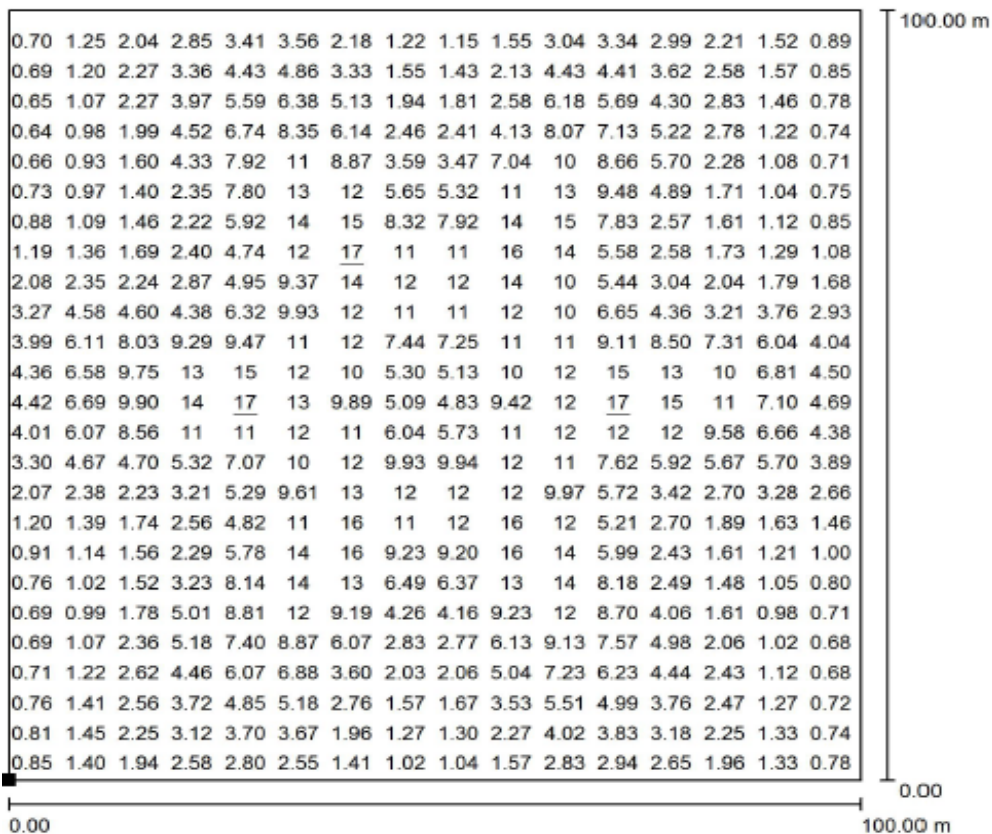


SOLM 20M Solar LED High mast - 6 x 80w High power LED floods

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	6	30x45DEG (Type 1)* (1.000)	14394	14400	80.0
*Modified Technical Specifications			Total: 86364	Total: 86400	480.0



2 3 4 5 10 15 20 25 30 lx



Grid: 128 x 128 Points

E_{av} [lx] E_{min} [lx] E_{max} [lx] $u0$ E_{min} / E_{max}
 5.41 0.56 17 0.103 0.032